





Product designation Product type designation			Power contactor BF12
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	28
Operational current le			
	AC-1 (≤40°C)	Α	28
	AC-1 (≤55°C)	Α	23
	AC-1 (≤70°C)	Α	20
	AC-3 (≤440V ≤55°C)	Α	12
	AC-4 (400V)	Α	7.9
Rated operational power AC-3 (T≤55°C)			
	230V	kW	3.2
	400V	kW	5.7
	415V	kW	6.2
	440V	kW	6.2
	500V	kW	7.5
	690V	kW	10
Rated operational power AC-1 (T≤40°C)			
	230V	kW	10
	400V	kW	18
	500V	kW	23
	690V	kW	32
IEC max current le in DC1 with L/R ≤ 1ms with 1 poles in series			
	≤24V	Α	17
	48V	Α	15
	75V	Α	13
	110V	A	6
150	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 2 poles in series	40 AV /		22
	≤24V	A	20
	48V	A	20
	75V	A	18
	110V	A	13 1
IEC may current to in DC1 with L/B < 1mg with 2 notes in series	220V	Α	
IEC max current le in DC1 with L/R ≤ 1ms with 3 poles in series	~2A\/	٨	22
	≤24V 48V	A	22
	48 V 75 V	A A	22 20
	110V	A	16
	1100	^	10





	220V	Α	11
IEC max current le in DC1 with L/R ≤ 1ms with 4 poles in series			
	≤24V	Α	20
	48V	Α	20
	75V	Α	20
	110V	Α	16
	220V	Α	12
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series			
·	≤24V	Α	12
	48V	Α	11
	75V	Α	10
	110V	Α	2
	220V	Α	_
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series	220 V		
The max current le in boo-boo with bit 2 forms with 2 poles in series	≤24V	Α	15
	48V	A	13
	46 V 75 V		13
		A	
	110V	A	8
150	220V	A	2
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series	.= :		4.0
	≤24V	Α	18
	48V	Α	18
	75V	Α	15
	110V	Α	12
	220V	Α	6
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	15
	48V	Α	15
	75V	Α	15
	110V	Α	16
	220V	Α	7
Short-time allowable current for 10s (IEC/EN60947-1)		Α	150
Protection fuse			
	gG (IEC)	Α	32
	aM (IEC)	Α	12
Making capacity (RMS value)		Α	120
Breaking capacity at voltage			
J. Safe and J. Saf	440V	Α	96
	500V	A	96
	690V	A	94
Resistance per note (average value)	090 v	mΩ	2.5
Resistance per pole (average value)		11177	۷.ن
Power dissipation per pole (average value)	141	147	2
	Ith	W	2
Till to die teen et te teen de	AC-3	W	0.4
Tightening torque for terminals			4 =
	min	Nm	1.5
	max	Nm	1.8
	min	Ibin	1.1
	max	lbin	1.5
Tightening torque for coil terminal			
	min	Nm	0.8
	max	Nm	1
	min	Ibin	0.8





		max	lbin	0.74
	simultaneously connectable		Nr.	2
Conductor section				
	AWG/Kcmil			
	Flacilla de la constanta de constanta de la co	max		10
	Flexible w/o lug conductor section			4
		min	mm²	1
	Florible of what conductor coation	max	mm²	6
	Flexible c/w lug conductor section	min	mm²	1
		max	mm²	4
	Flexible with insulated spade lug conductor section	IIIax	111111	4
	r lexible with insulated space lug conductor section	min	mm²	1
		max	mm²	4
		max		IP20 when
Power terminal prote	ction according to IEC/EN 60529			properly wired
Mechanical features				, ,, , , , , , , , , ,
Operating position				
. 01		normal		Vertical plan
		allowable		±30°
Fixing				Screw / DIN rail
Fixing				35mm
Weight			g	500
Conductor section				
	AWG/kcmil conductor section			
		max		10
Auxiliary contact cha	racteristics			
Thermal current Ith			Α	10
IEC/EN 60947-5-1 d				A600 - P600
Operating current AC	215			
		230V	Α	3
		400V	A	1.9
0	240	500V	A	1.4
Operating current DC	512	440)/		
0	240	110V	A	5.7
Operating current DC	513	0.41/	۸	<i>-</i> -
		24V	A	5.7
		48V 60V	A A	2.9 2.3
		110V	A	2.3 1.25
				1.25
		125\/	Δ	
		125V 220V	A A	
		220V	Α	0.55
Operations				
		220V	A A	0.55 0.2
Mechanical life		220V	A A cycles	0.55 0.2 20000000
Mechanical life Electrical life		220V	A A	0.55 0.2
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	220V	A A cycles	0.55 0.2 20000000
Mechanical life Electrical life Safety related data	10d according to EN/ISO 13489-1	220V 600V	A A cycles	0.55 0.2 20000000 2000000
Mechanical life Electrical life Safety related data	•	220V 600V rated load	A A cycles cycles	0.55 0.2 20000000 2000000 2000000
Mechanical life Electrical life Safety related data Performance level B	me	220V 600V	A A cycles	0.55 0.2 20000000 2000000 2000000 20000000
	•	220V 600V rated load	A A cycles cycles	0.55 0.2 20000000 2000000 2000000





AC operating voltage

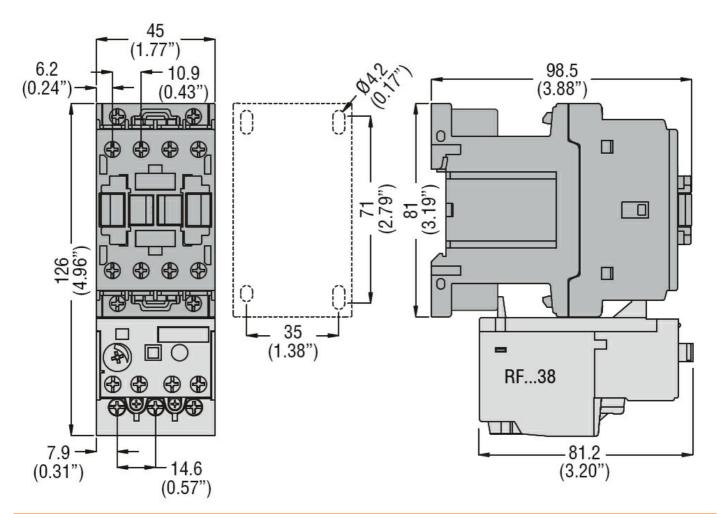
of 50/60Hz coil powered at 50Hz drop-out

			max	%Us	55
DC coil operating					
DC rated control voltag	je			V	48
OC operating voltage					
	pick-up				
			min	%Us	80
			max	%Us	110
	drop-out			0/11	4.0
			min	%Us	10
A '1	10000		max	%Us	40
Average coil consump	tion ≤20°C		2	147	0.4
			in-rush	W	2.4
Associated for more and			holding	W	2.4
Max cycles frequency					2000
Mechanical operation				cycles/h	3600
Operating times	entrol				
Average time for Us co					
	in AC	Closing NO			
		Closing NO	min	mo	8
				ms ms	24
		Opening NO	max	ms	24
		Opening NO	min	ms	10
			max	ms	20
		Closing NC	max	1110	20
		Clocking 140	min	ms	14
			max	ms	28
		Opening NC	max		20
		opog . to	min	ms	7
			max	ms	18
	in DC				
		Closing NO			
		3	min	ms	75
			max	ms	91
		Opening NO			
			min	ms	15
			max	ms	19
		Closing NC			
			min	ms	24
			max	ms	30
		Opening NC			
			min	ms	67
			max	ms	81
JL technical data					
Full-load current (FLA)	for three-phase AC	motor			
			at 480V	Α	11
			at 600V	Α	11
Yielded mechanical pe					
	for single-phase A	C motor			
			110/120V	HP	1
			230V	HP	2

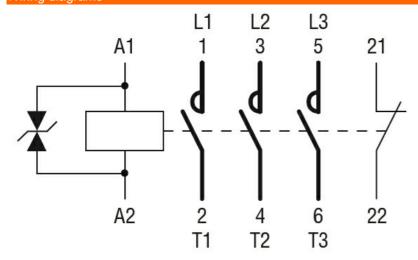




	for three-phase AC motor			
		200/208V	HP	5
		220/230V	HP	5
		460/480V	HP	7.5
		575/600V	HP	10
General USE				
	Contactor			
		AC current	Α	28
	Auxiliary contacts			
	•	AC voltage	V	600
		AC current	Α	10
		DC voltage	V	250
		DC current	Α	1
Short-circuit protection	n fuse, 600V			
	High fault			
		Short circuit current	kA	100
		Fuse rating	Α	30
		Fuse class		J
	Standard fault			
		Short circuit current	kA	5
		Fuse rating	Α	70
Contact rating of auxiliary contacts according to UL				A600 - P600
Ambient conditions				
Temperature				
	Operating temperature			
		min	°C	-50
		max	°C	70
	Storage temperature			
		min	°C	-60
		max	°C	80
Max altitude			m	3000
Resistance & Protection	on			
Pollution degree				3
Dimensions				



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1

UL 60947-4-1

Certificates



BF1201L048

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 12A, DC COIL LOW CONSUMPTION, 48VDC, 1NC AUXILIARY CONTACT

CCC	
cULus	
EAC	

ETIM classification

ETIM 8.0

EC000066 -Power contactor, AC switching